

**WEST**[Help](#)[Logout](#)[Main Menu](#) [Search Form](#) [Result Set](#) [Show S Numbers](#) [Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KWIC](#)

Entry 4 of 10

File: JPAB

Jun 13, 1990

DOCUMENT-IDENTIFIER: JP 02153930 A

TITLE: FLUORINE-CONTAINING PHENOXY RESIN, COMPOSITION AND USE THEREOF

## FPAR:

CONSTITUTION: A fluorine-containing phenoxy resin composition obtained by thermally reacting, e.g. a phenoxy resin, with a perfluoroalkyl ether-based oligomer and/or hexafluoropropene oligomer in the presence or absence of a solvent in the presence of a basic catalyst, such as triethylamine, providing a fluorine-containing phenoxy resin having a structural formula of formula I [ $R_f$  is a group expressed by formula II ( $n$  is 0-50) or formula III ( $R'$ ,  $R''$  and  $R'''$  are  $CF_3$ ,  $C_2H_5$ , etc.);  $m$  is about 100], subsequently mixing the above-mentioned resin with a fluorine-containing compound, such as formula IV, a polymer, such as polyimide, and a polyfunctional epoxy compound, such as bisphenol A diglycidyl ether.

[Main Menu](#) [Search Form](#) [Result Set](#) [Show S Numbers](#) [Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KWIC](#)[Help](#)[Logout](#)

**WEST**[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Result Set](#)[Show S Numbers](#)[Edit S Numbers](#)[Fast Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KWIC](#)

Entry 6 of 10


File: EPAB


Jan 25, 1989


DOCUMENT-IDENTIFIER: EP 300358 A1

TITLE: Process for the production of perfluoroalkyl-containing epoxides, and perfluoroalkyl-containing epoxides.

FPAR:

Perfluoroalkyl-containing epoxides of the formula 1  in which Rf is a perfluoroalkyl-containing radical, X is halogen, a is 1 to 4 and b is 0 to 20, are prepared by reacting a fluoroalcohol/ epihalohydrin adduct of the formula 2

 in which Rf, X, a and b have the meanings mentioned, with alkali metal hydroxide or alkaline earth metal hydroxide in the form of an aqueous solution in the presence of phase-transfer catalysts and at a pH of 9 to 12. The

perfluoroalkyl-containing epoxides are those of the formula 3  in which Rf, X and a have the meanings mentioned and b is 1 to 20. The epoxides in question are advantageous monomers for the preparation of fluorine-containing epoxy resins and epoxy copolymers, which in turn are good finishing agents for textiles and leather.

[Main Menu](#)[Search Form](#)[Result Set](#)[Show S Numbers](#)[Edit S Numbers](#)[Fast Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KWIC](#)[Help](#)[Logout](#)

Main Menu	Search Form	Result Set	Show S Numbers	Edit S Numbers					
First Hit		Previous Document		Next Document					
Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWC
Help					Logout				

.....

**WEST**[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Result Set](#)[Show S Numbers](#)[Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KWOC](#)

Entry 10 of 10

File: DWPI

Dec 8, 1989

DERWENT-ACC-NO: 1990-026710

DERWENT-WEEK: 199718

COPYRIGHT 2000 DERWENT INFORMATION LTD

TITLE: New fluorine-contg. di:ol(s), for resin modifiers - prepd. by reacting epoxy cpds. and water in non-reactive organic solvent in acid catalyst

PRIORITY-DATA:

1988JP-0134569

May 31, 1988

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 01305045 A

December 8, 1989

N/A

003

N/A

JP 2526993 B2

August 21, 1996

N/A

004

C07C043/13

INT-CL (IPC): B01F 17/42; C07B 61/00; C07C 41/03; C07C 43/13

ABSTRACTED-PUB-NO: JP01305045A

BASIC-ABSTRACT:

Fluorine-contg. diols of formula (I) and their prepn. are new. (Rf is 4-20C perfluoroalkyl; n is 1 or 2). Pref. (I) are prepd. by reacting epoxy cpds. of formula (II) and water in non-reactive organic solvent selected from ketones, ethers, sulphoxides, and sulphones in presence of (in)organic acid catalyst. Raw materials (II) are easily obtd. by reacting readily available cpds. of formula Rf(CH2)nOH (III) and epichlorohydrin in presence of alkali metal hydroxide (US patent, No. 3,361,685 and 3,417,035). Use amts. of water and acid catalyst are 1, (5), molar equiv(s). and 0.01-5 wt%, respectively, to (II). Acids used may be mineral acids e.g. sulphuric-, hydrochloric-and nitric-acid or organic acids eg acetic- and p-toluenesulphonic-acid. Reaction temp. is 30-100, (60-90), deg C.

USE/ADVANTAGE - Cpds. (I) are useful as resin modifiers. (I) improve water absorbency, weatherproofness, and elasticities of resins and insurance of conventional improvement of water or oil-repellency and low refractive index.

[Main Menu](#)[Search Form](#)[Result Set](#)[Show S Numbers](#)[Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KWOC](#)[Help](#)[Logout](#)

**WEST**

## Freeform Search

Database: All Databases (USPT + EPAB + JPAB + DWPI + TDBD) ▼

Term: Display  Documents in Display Format: Generate: ☐ Hit List ☒ Hit Count ☐ Image

Search

Clear

Help

Logout

Main Menu

Show 8 Numbers

Edit 8 Numbers

### Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
ALL	catalyst same l2	10	<u>L4</u>
ALL	catalyst	577196	<u>L3</u>
ALL	fluorine same l1	134	<u>L2</u>
ALL	epoxy same perfluoroalkyl	417	<u>L1</u>